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EXAMINER

DHARIA, PRABODH M

ART UNIT	PAPER NUMBER
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2673

DATE MAILED: 03/05/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

NJ

# Office Action Summary

Application No.

09/770,415

Applicant(s)

FUJIWARA ET AL.

Examiner

Prabodh M Dharja

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the LED's ( Page 5, Line 25), Switches (Page 5, Line 24), Back up Power Supply (Page 5, Line 30), must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsukura et al. (6,335,739 B1) in view of Mizushima et al. (5,988,817).

Regarding Claims 1,11, Matsukura et al. teaches the projection display apparatus having communication interface (40 of Figure 2, Col. 6, Line 39-43) controlled by a controller (10 of Figure 2, Col.6, Line 38) with an external device communicating to projection display device

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via the I/O ports has storage section (10 of Figure 2, Col.6, Line 34-37) and controlling portion (10 of Figure 2, Col.6, Line 38). A controlling section (portion) configured to, in response to an initialization signal input through the first communication port, (21 of Figure 5, Col. 8 Lines 57, 58) store ID information (Figure 5, Col. 8 Lines 66,67 to Col.9, Line 1) corresponding to the initialization signal into the storage section, update the initialization signal into the storage section, (Figure 5, Col.9, Line 1,2) according to a predetermined rule, and transmit updated initialization signal through the second communication port, the control section further configured to, in response to a command input through the first communication port, determine whether or not the command is directed to itself as a projection display apparatus of interest, based on address information included in the command and the ID information included stored in the storage section, and the control section is further configured to carry out a processing specified by command if the command is directed to itself as projection display apparatus of interest ( 603-608 of Figure 6, Col.10, Lines 39-53).

However Matsukura et al. does not teach serially connected projection unit.

Mizushima et al teaches multi-projection system serially connected. (91 of Figure 6, Col. 12, Lines 9-25).

It would have been obvious to one in ordinary skill in the art at the time of invention was made to incorporate the teaching of Mizushima et al. in to the Matsukura et al. to have multi-projection system serially connected, thus multi-port communication could be achieved in point to point or broadcast environment.

Regarding Claims 2,12, Matsukura et al. teaches the control section is configured to transmit return information, which represents a result of the processing specified by the given

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command, through the first communication port after the processing has been completed, and if the control section receives return information input through the second communication port, the control section transmits through the first communication port the return information given through the second communication port ( 603-608 of Figure 6, Col.10, Lines 39-53).

Regarding Claims 3,13, Matsukura et al. teaches the command input section and wherein control section carries out processing specified by the command input through the command input section only when an initialization signal having prescribed contents is input through the first communication port, the control section neglecting the command given through the command input section when the input initialization signal has no prescribed contents (608 of Figure 6, and 10 of Figure 2, Col. 10, Line 61-67).

Regarding Claims 4,14, Matsukura et al. teaches the initialized signal having the prescribed contents is input through the first communication port and a predetermined command is input through the command input section, the control section carries out a control to display an onscreen display menu to allow input of commands addressed to an arbitrary one of a plurality of projection display apparatuses including the projection display apparatus interest (Figure 5 and 2 of Figure 1, Col. 9, Lines 40-59).

Regarding Claims 5,15, Matsukura et al. teaches the initialized signal having the prescribed contents is input through the first communication port, the control section transmits through the second communication port a piece of information that specifies at least one of a type of image signal supplied externally and a method of signal processing to be applied for the supplied image signal, when the initialized signal having the prescribed contents is not input through the first communication port, the control section receives through the first

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communication port the piece of information that specifies at least one of the type of image signal supplied externally and the method of signal processing to be applied for the supplied image signal and controls a processing applied for the supplied image signal according to the received piece of information (70 of Figure 3, Col. 6, Lines 16,17 and 57-63).

Regarding Claims 6,16, Matsukura et al. teaches the plurality of image signal input ports configured to receive image signals, wherein the control section receives an image signal input from one of the plurality of image signal input ports and controls projection and display of an image expressed by the selected image signal in response to a command given through the first communication port. (10,11,12, 21,22 of Figure 1, Col. 6 Lines 9-16)

Regarding Claims 7,17, Matsukura et al. teaches the control section is configured to delay an execution timing of the processing specified by the command given through the first communication port according to the ID information stored in storage section during the broadcast. (S1004 of Figure 10, Col. 13, Lines 25-28 and Col. 14, Line 11-29 delay through processing of broadcast)

Regarding Claims 8,18, Matsukura et al. teaches the command input section and wherein control section carries out processing specified by the command input through the command input section only when an initialization signal having prescribed contents is input through the first communication port, the control section neglecting the command given through the command input section when the input initialization signal has no prescribed contents (608 of Figure 6, and 10 of Figure 2, Col. 10, Line 61-67).

Regarding Claims 9,19, Matsukura et al. teaches the initialized signal having the prescribed contents is input through the first communication port and a predetermined command

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is input through the command input section, the control section carries out a control to display an onscreen display menu to allow input of commands addressed to an arbitrary one of a plurality of projection display apparatuses including the projection display apparatus interest (Figure 5 and 2 of Figure 1, Col. 9, Lines 40-59).

Regarding Claims 10,20, Matsukura et al. teaches the initialized signal having the prescribed contents is input through the first communication port, the control section transmits through the second communication port a piece of information that specifies at least one of a type of image signal supplied externally and a method of signal processing to be applied for the supplied image signal, when the initialized signal having the prescribed contents is not input through the first communication port, the control section receives through the first communication port the piece of information that specifies at least one of the type of image signal supplied externally and the method of signal processing to be applied for the supplied image signal and controls a processing applied for the supplied image signal according to the received piece of information (70 of Figure 3, Col. 6, Lines 16,17 and 57-63).

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Matsukura et al.(6,335,739 B1) Terminal Operation System

Rider et al. (6,257,982 B1) Motion Picture Theater Interactive Gaming System

Mizushima et al. (5,988,817) Multiprojection system

Lindstrom (3,985,431) Credit Card Validation Aid

Honebrink et al.(4,086,005) Audio-Visual Programmer

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Yuen et al. (6,321,381 B1) Apparatus and Method for Improved Parental Control of Television use

Wong et al. (6,324,181 B1) Fibre Channel Switched Arbitrated Loop

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh Dharia whose telephone number is (703) 605-1231. The examiner can normally be reached Monday- Friday from 8:00 AM to 5:00 PM.


If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached at (703) 305-4938. The fax number of the group is (703) 308-6606.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4750.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

  
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